1967 - 1968

MONTANA

Perinatal Deaths

FOURTEENTH - FIFTEENTH YEARS OF THE STUDY



MATERNAL AND CHILD WELFARE COMMITTEE

MONTANA MEDICAL ASSOCIATION

WITH

MONTANA STATE DEPARTMENT OF HEALTH



HELENA MONTANA

PERINATAL DEATH STUDY

FORWARD

The following is data collected by the Maternal and Child Welfare Committee of the Montana Medical Association and the State Department of Health.

It represents considerable interest and work by the following members of the Committee:

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RELATIVE RISK OF NEONATAL DEATH BY AGE OF MOTHER

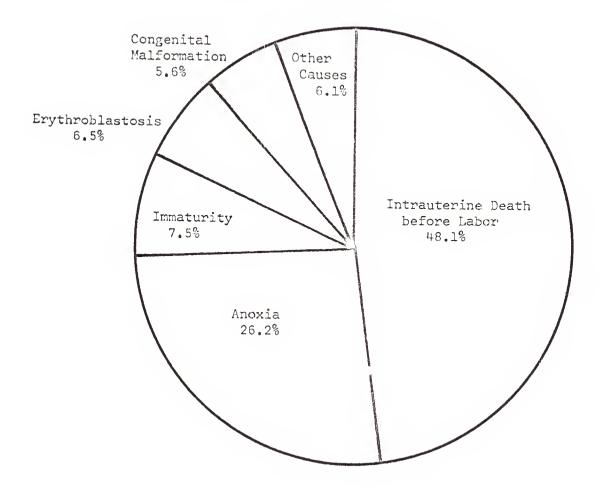
	Neonatal			Resident Li	ve Births	
Mother's Age	Deaths	Rate*	Total	1967	1968	
TOTAL, All Ages	378	1.6	24,079	12,087	11,992	
Under 15	2	**	31	18	13	
15 - 19	89	2.3	3,886	1,960	1,926	
20 - 24	136	1.4	9,488	4,747	4,741	
25 - 29	85	1.4	5,899	2,885	3,014	
30 - 34	31	1.1	2,848	1,467	1,381	
35 - 39	24	1.7	1,393	710	683	
40 - 44	9	1.8	502	278	224	
45 and over	-	**	31	21	10	
Age not stated	2	**	1	1	_	

^{*} Deaths per 100 live births ** Not calculated

Neonatal Deaths

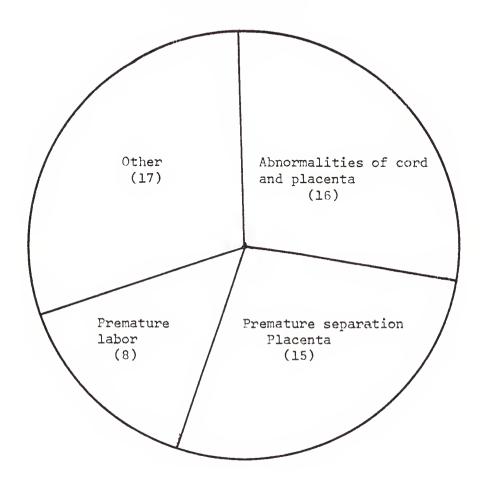
Year	Number
1967	204
1968	174

PRIMARY CAUSE OF FETAL DEATHS BY PERCENTAGE



CAUSE OF FETAL DEATH

103
56
13
3
14
12
2
2
1
1
1
6
214



OTHER CAUSES OF ANOXIC DEATH

Abnormal presentation	3
Placenta previa	3
Prolapsed cord	3
Hypertensive toxemia	3
Heart disease	1
Premature rupture membranes	2
Trauma	1
None	1
	17

FETAL DEATHS BY BIRTH WEIGHT

Weight	Number
TOTAL	214
Under 2 lbs. 3 oz.	39
2 lbs. 3 oz 3 lbs. 4 oz.	22
3 lbs. 5 oz 4 lbs. 6 oz.	26
4 lbs. 7 oz 5 lbs. 8 oz.	20
5 lbs. 9 oz 6 lbs. 10 oz.	24
6 lbs. 11 oz 7 lbs. 12 oz.	27
7 lbs. 13 oz 8 lbs. 14 oz.	13
8 lbs. 15 oz 10 lbs.	3
10 lbs. 1 oz 11 lbs. 2 oz.	2
Not stated	38

FETAL DEATH STUDY Length of Gestation

Weeks	Number
TOTAL	214
20	9
21	2
22	10
23	-
24	12
25	3
26	10
27	-
28	9
29	2
30	15
31	3
32	16
33	6
34	10
35	4
36	14
37	5
38	12
39	3
40 41 42 43 44 Not stated	38 5 8 1 5

FETAL DEATHS BY FETAL CAUSE BY AGE OF MOTHER

Age of Mother

Cause	TOTAL	Under 15	15- 19	20 - 24	25 - 29	30- 34	35 - 39	40- 44	45 or over	Not Stated
TOTAL	214	1	36	72	42	34	17	9	2	1
Birth injury	2	-	-	1	-	-	-	1	-	-
Immaturity (over 28 weeks)	3	-	1	2	-	-	-	-	-	-
Anoxia	56	-	11	18	8	9	7	2	1	-
Congenital malformation	12	-	1	5	3	-	-	3	-	-
Infection, virus or other	1	-	-	-	-	1	-	-	-	-
Dehydration & acidosis	1	-	-	-	-	-	1	-	-	-
Fetal bleeding	1	•	1	-	-	-	-	-	-	-
Erythroblastosis	14	-	-	3	6	3	1	1	-	-
Immaturity	13	-	3	4	Ħ	2	-	-	-	-
Intrauterine death before labor	103	1	19	35	21	17	8	1	-	1
Unknown	2	-	-	1	-	1	-	-	-	-
Not stated	6	-	-	3	-	1	-	1	1	-

RELATIVE RISK OF FETAL DEATH BY AGE OF MOTHER

(Based on returned questionnaires*)

	Pata 3			Resident Live Births				
Mother's Age	Fetal Deaths	Ratio*	Total	1967	1968			
TOTAL, All ages	214	8.9	24,079	12,087	11,992			
Under 15	1	***	31	18	13			
15 - 19	36	9.3	3,886	1,960	1,926			
20 - 24	72	7.6	9,488	4,747	4,741			
25 - 29	42	7.1	5,899	2,885	3,014			
30 - 34	34	11.9	2,848	1,467	1,381			
35 - 39	17	12.2	1,393	710	683			
40 - 44	9	17.9	502	278	224			
45 and over	2	**	31	21	10			
Age not stated	1	**	1	1	_			

^{*}Number of registered fetal deaths on which physicians returned questionnaires to the Division of Child Health Services per 1,000 live births to resident mothers of Montana.

^{**}Number of events too small to produce meaningful ratios.

RELATIVE RISK OF FETAL DEATH BY AGE OF MOTHER

(Based on Fetal Death Certificates)

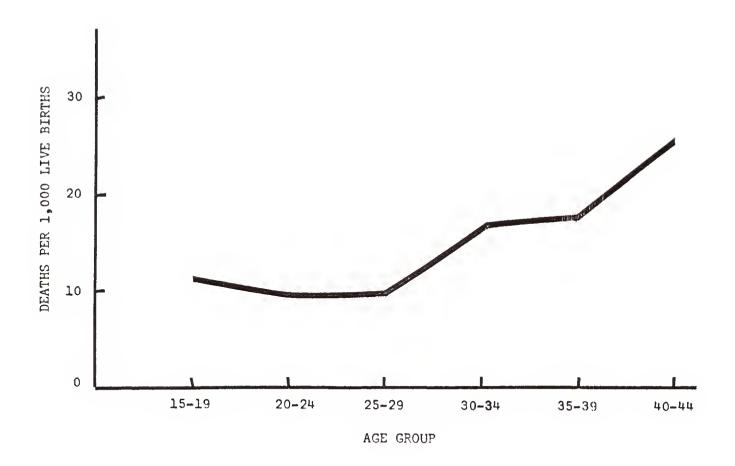
	Resider	nt Fetal I	Resident Live		
Mother's Age	TOTAL	1967	1968	Ratio*	Births 1967 - 1968
TOTAL, All Ages	287	141	146	11.9	24,079
Under 15	1	0	ı	**	31
15 - 19	44	20	24	11.3	3,886
20 - 24	91	40	51	9.6	9,488
25 - 29	58	31	27	9.8	5,899
30 - 34	48	25	23	16.9	2,848
35 ~ 39	25	11	14	17.9	1,393
40 - 44	13	9	4	25.9	502
45 and over	2	1	1	**	31
Age not stated	5	Ł	1	**	1

^{*}Number of fetal deaths per 1,000 live births
**Number of events too small to produce meaningful ratio.

FETAL DEATH RATIOS BY AGE OF MOTHER

Montana, 1967 - 1968

(By place of residence)

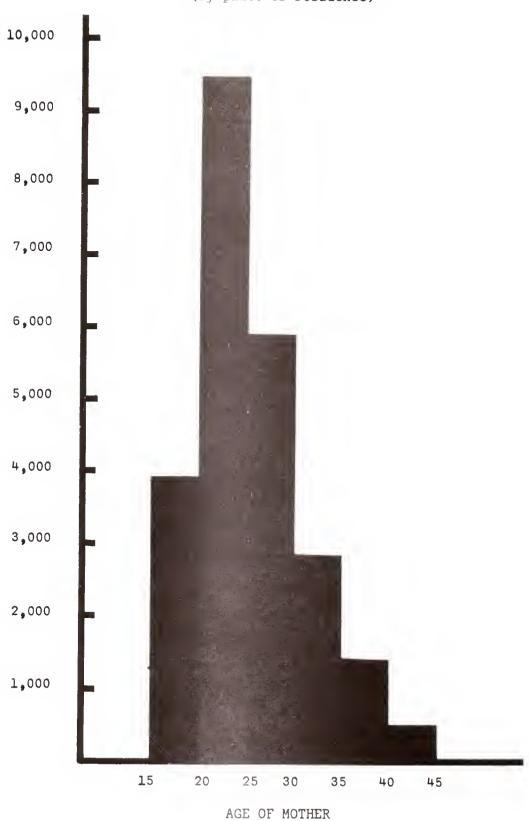


FETAL DEATHS BY MATERNAL CAUSE BY AGE OF MOTHER

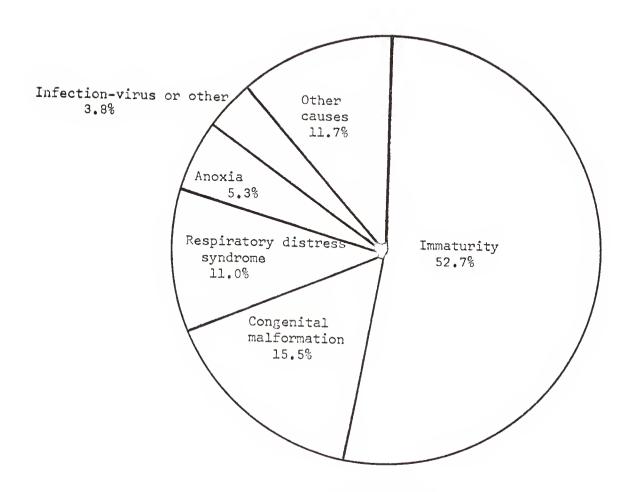
Age of Mother

First Cause	TOTAL	Under 15	15- 19	20 - 24	25 - 29	30- 34	35 - 39	40- 44	45 or over	Not State
TOTAL	214	1	36	72	42	34	17	9	2	1
Premature Labor	45	-	14	13	5	9	3	1	-	_
Premature rupture membranes	11	-	1	7	3	_	-	_	map.	-
Premature separation placenta	28	_	7	5	5	6	5	-	-	_
Placenta previa	5	_	2	1	-	_	1	1	_	-
Infection, virus or other	2	-	1	1	-	_	_	_	_	_
Malnutrition or obesity	5	-	-	2	1	_	2	-	-	_
Threatened abortion	2	-	-	1	_	1	_	_	_	_
Habitual abortion	2	-	_		_	_	1	1	_	-
Heart disease	1	-	-	_	and .	_	_	ī	_	_
Diabetes	6	-	_	2	1	1	1	_	_	1.
Rh sensitization	14	_	_	3	6	3	1	1	_	
Surgery	1	nea	-	***	1	-	_	_	_	-
Irradiation	1	•••	map.	_	1	_	_	_	-	**
Uterine anomaly	1	-	_	1	-	_	-	-	_	_
Multiple pregnancy	3	-	1	***	2	-	-	_	_	_
Abnormal presentation	6	mp	***	2	3	ana.	**	1	_	_
Placenta & cord abnormality	23	_	2	9	5	6	1	_	_	_
Prolapsed cord	3	map.	mar.	1	-	_	ī	_	1	_
Hypertensive toxemia	11	_	3	4	_	3	_	_	1	_
Unattended delivery	2	-	1	_	1	_	_	_	_	_
Post maturity	I	_	_	1	_	_	_	_	_	_
Trauma	1	_	_	24	_	1	_	_	_	_
Maternal neglect or ignorance	1	-	-	_	1	_	_	_	_	_
Maternal age	1	-	_	-	_	-	_	1	_	
Blood disorder or dyscrasias	2	-	-	_	1	1	_	_	_	_
None	2	-	1	1	_	_	_	_	_	-
Unknown	34	1	3	18	6	3	1	2	_	_

Montana, 1967-68
(By place of residence)



PRIMARY CAUSE OF NEONATAL DEATH (264 Questionnaires)



CAUSE OF NEONATAL DEATH

Immaturity Immaturity (28 weeks or less) Immaturity (28 weeks or over)	86	139
Congenital malformation		11]
Respiratory distress		29
Hyaline membrane	23	
Postnatal asphyxia or atelectasis	6	
Anoxia		14
Infection - virus or other		10
Erythroblastosis		5
Unknown		5
Birth injury		4
Aspiration		·
Fetal bleeding		4
Allergy		1
		1
Neoplasm		1
Not stated		10
	Total	264

NEONATAL DEATHS BY FETAL CAUSE BY AGE OF MOTHER

Age of Mother

Cause	TOTAL	Under 15	15- 19	20- 24	25- 29	30 - 34	35 - 39	40- 44	45 or over	Not Stated
TOTAL	264		67	85	62	20	13	7	-	10
Birth injury	14	cas		2	_	_	2	-	_	_
Immaturity (over 28 weeks)	53	-	14	15	11	6	3	_	_	4
Anoxia	14	-	2	5	1	3	_	2	_	1
Postnatal asphyxia or atelectasis	6	66	-	2	4	-	_	_	_	_
Congenital malformation	41		7	12	13	4	3	2	_	_
Infection, virus or other	10	-	1	3	4	_	_	1	_	1
Hyaline membrane	23	96	11	10	4	3	1	_	_	1
Aspiration	4	-	1	3	-	_	_	-	_	_
Fetal bleeding	1	cont	_	the	1	_	-	_	_	_
Allergy	1	-	1	_	-	-	_	_	_	_
Erythroblastosis	5	No.	1	-	1	1	1	_	_	1.
Immaturity	86	-	33	29	15	2	3	2	_	2
Neoplasm	1	-	-		1.	_	_	_	_	_
Unknown	5	asp.	3	2	_	_	33	_	_	_
Not stated	10	***	-	2	7	1	_	-	_	_

CONGENITAL MALFORMATIONS (First Mentioned)

	TOTAL	FETAL	NEONATAL
TOTAL	42	4	38
Bone and Joint	6	2	Įţ.
Digestive	4	_	Ħ
Genito-urinary	5	-	5
Heart and Blood Vessels	15	_	15
Nervous System	£‡	1	3
Respiratory	2	1	1
Cleft Palate - Cleft Lip	5	-	5
Genetic	1	-	1

FETAL DEATHS FROM ERYTHROBLASTOSIS

Mother's Blood Tested for Rh Factor

TOTAL	14
Yes	10
No	_
Not stated	Ħ

NEONATAL DEATHS FROM ERYTHROBLASTOSIS

Blood Transfusion

Age at Death	Total	Yes	No
TOTAL	5	3	2
Under 1 day	2	-	2
Two days 4 - 7 days	2 1	2 1	_

1967 - 1968 BIRTHS WITH ERYTHROBLASTOSIS

Total	87
1967	7 5
1968	12

1967 - 1968 DEATHS WITH ERYTHROBLASTOSIS

Total	7
1967	6
1968	1

1967 - 1968 BIRTHS WITH ERYTHROBLASTOSIS

TOTAL	87
1967 ac	75*
1968 m m as	12
LIVE BIRTHS TO MOTHERS WHO WERE RESIDENTS OF MONTAL AND WHO WERE DELIVERED IN MONTANA 1967 - 1968	VA 23,557
MONTANA RESIDENT FETAL DEATHS 1967 - 1968	287
1967 - 1968 DEATHS WITH ERYTHROBLASTOS	<u>IS</u>
TOTAL	7
1967	====6
1968 - 1968 - 1969 - 1960 - 1969 - 1969 - 1960 - 196	D 00 40 50 00 00 ED]
Live Births with Erythroblastosis	87
Stillbirths with Erythroblastosis	22
Total deliveries with Erythroblastosis Fetal deaths and deaths from	109
Erythroblastosis	29
Percent of deliveries Percent of deliver: with Fetal result: 26.6% with infant surviv:	
Occurrence: 3.7 cases of erythroblastosis per 1,00 live births	00
4.6 cases of erythroblastosis per 1,00 deliveries**	00

^{*} Includes births with mention of Rh Sensitization.
** Includes births plus stillbirths.

MATERNAL COMPLICATIONS

Fetal

Neonatal

Cause	First	Second	First	Second
TOTAL	214	214	264	264
Premature Labor	45	9	140	16
Premature rupture membranes	11	10	21	30
Premature separation placenta	28	7	12	10
Placenta previa	5	3	4	5
Infection, virus or other	2	3	10	8
Malnutrition or obesity	5	5	1	4
Severe vomiting 1st trimester	-	-	ĺ	3
Threatened abortion	2	4	6	8
Habitual abortion	2	2	O	3
Heart disease	1	_	-	3
Diabetes	6		_	-
Rh sensitization	14	1	2	1
Surgery		_	6	-
Irradiation	1	2	5	2
	1	1	-	_
Pelvic neoplasm	-	_	1	-
Uterine anomaly	1	1	Can-	1
Excessive amniotic fluid	-	1	1	1
Multiple pregnancy	3	9	1	15
Abnormal presentation	6	2	_	6
Placenta & cord abnormality	23	14	4	2
Prolapsed cord	3	4	•	2
Hemorrhage	_	Ц.	•	5
Kidney anomaly or disease	_	-	-	2
Hypertensive toxemia	11	3	-	1
Rapid delivery	-	3		3
Unattended delivery	2	30	2	3
Post maturity	1	2	1	ĭ
Prolonged labor	_	ī	-	_
Trauma	1	2	1	_
Incompetent cervical os		-	1	4
Maternal neglect or ignorance	1	3	1	4
Emotional disturbance		ì		
Maternal age	1	<u>.</u>		1
Endocrine	_	_	2	1
Drugs	_	1		-
Inadequate prenatal care		1	1	-
Blood disorder or dyscrasias	.=	au-	1	-
None	2	ome-	-	-
Unknown	2		15	-
	34		21	1
Not stated		116	3	122

MULTIPLE PREGNANCIES BY CAUSE OF PERINATAL DEATH

	Fetal	Neonatal
Cause	Number	Number
TOTAL	13	27
Birth injury	-	1
Immaturity (over 28 weeks)	-	10
Anoxia	4	-
Postnatal asphyxia or atelectasis	-	1
Congenital malformation	-	ı
Aspiration	-	ı
Fetal bleeding	ı	-
Immaturity	_	12
Intrauterine death before labor - fetal	6	-
Not stated	2	1

FETAL HEART TONES LAST HEARD

Time	Number
TOTAL	214
Less than 5 minutes	
5 - 9 minutes	2
10 - 14 minutes	1
15 - 19 minutes	1
20 - 24 minutes	3
25 - 29 minutes	***
30 - 34 minutes	6
35 - 39 minutes	-
40 - 44 minutes	-
45 - 49 minutes	-
50 - 54 minutes	•
55 - 59 minutes	1
Less than 2 hours	4
2 - 12 hours	11
12 - 24 hours	ц
Over 24 hours	77
Not heard	39
Not taken	-
Not stated	65

PRIMARY MATERNAL FACTORS LEADING TO INTRAUTERINE DEATH BEFORE LABOR

(103 Questionnaires)

TOTAL	103
Premature Labor	25
Premature rupture membranes	5
Premature separation placenta	12
Infection, virus or other	2
Malnutrition or obesity	5
Threatened abortion	1
Habitual abortion	2
Diabetes	3
Rh sensitization	1
Uterine anomaly	1
Multiple pregnancy	3
Placenta & cord abnormality	6
Hypertensive toxemia	4
Unattended delivery	2
Maternal neglect or ignorance	1
Blood disorder or dyscrasias	2
None	1
Unknown	27

SEDATION

	Fetal	Neonatal
TOTAL	214	264
Proper administration - proper time	86	88
Proper administration - improper time	3	11
Improper administration - proper time	-	-
Improper administration - improper time	2	11
None given	116	148
Blank - no entry on questionnaire	7	6

ANTEPARTUM

Oxytoxic Drug

	Fetal	Neonatal
TOTAL	214	264
Given - Warranted	7	7
Given - Not warranted	2	1
Not given	197	248
Not stated	8	8

FETAL

Deaths from prematurity as Perinatal Cause by Maternal Complication

	Primary (Primary Cause		ause
	Immaturity (over 28 weeks)	Immaturity	Immaturity (over 28 weeks)	Immaturity
TOTAL	3	13	3	13
Premature Labor	1	6	1	1
Premature rupture membran	nes =	3	1	2
Premature separation place	enta -	1	-	3
Infection, virus or other		-	-	1
Threatened abortion	1	-	-	1
Habitual abortion	40	-	-	1
Surgery	©	1	-	-
Irradiation	-	1	-	-
Placenta & cord abnormali	ity -	-	1	-
Prolapsed cord	-	-	-	1
Hypertensive toxemia	1	_	-	-
Rapid delivery	-	comp	-	2
Unknown	-	1	-	-
Not stated	œ	-	-	1

Total fetal deaths - 214

PREVIOUS PREMATURE LABORS

Number of Premature Births per Mother	<u>Fetal</u>	Neonatal
TOTAL	214	264
0	200	230
1	6	18
2	5	6
Over 9	-	1
Blank spaces - no inform	mation	
from questionnaire	3	9

NEONATAL

Deaths from prematurity as Perinatal Cause by Maternal Complications

		Primary	Cause	Secondary C	ause
	Immatu	ritv		Immaturity	
Cause (over 28		Immaturity	(over 28 weeks)	Immaturity
TOTAL	53		86	53	86
Premature Labor	34		61	5	7
Premature rupture membran	es 9		5	4	18
Premature separation place	enta 1		5	2	4
Placenta previa	1		1	1	1
Infection, virus or other	3		-	1	4
Malnutrition or obesity	-		-	1	1
Severe vomiting 1st trime:	ster -		_	=	2
Threatened abortion	-		5	1	5
Habitual abortion	-		_	-	2
Diabetes			1	_	_
Surgery	cates		2	-	1
Pelvic neoplasm	1		-	_	_
Uterine anomaly	-		-	1	_
Multiple pregnancy	100		_	7	4
Abnormal presentation	-		_	2	_
Placenta & cord abnormalit	ty -		_	1	1
Prolapsed cord	-		989	-	ī
Hemorrhage	-		_	_	4
Rapid delivery	-		_	1	1
Unattended delivery	1		_		2
Trauma	1		-	no.	_
Maternal neglect or ignora	ance -		1	2	2
Endocrine	2		-	-	-
Unknown	_		1	_	_
Not stated	comp.		3	23	24

NEONATAL DEATHS BY MATERNAL CAUSE BY AGE OF MOTHER

Age of Mother

First Cause	LATOT	Under 15	15- 19	20- 24	25 - 29	30 - 34	35- 39	40- 44	45 or over	Not Stated
TOTAL	264	-	67	85	62	20	. 13	7	-	10
Premature Labor	140	cup-	47	49	25	7	4	5	_	3
Premature rupture membranes	21	_	3	8	5	2	3	_	_	3
Premature separation placenta	12	_	1	3	3	3	_	_		2
Placenta previa	4	que.	ī	ì	-	2	_	_	_	2
Infection, virus or other	10	**	2	6	2	_	_	_	_	-
Malnutrition or obesity	1	_	_	_	ĺ	_	_	-	-	-
Severe vomiting 1st trimester	ī	_	_	_	ī	_	_	_	-	-
Threatened abortion	6	-	2	-	4	-	_	-	_	-
Diabetes	2	-	1	1	-	_		_	-	-
Rh sensitization	6	-	î	_	2	1	_	-	-	2
Surgery	5	_	1	_	2	_	2	-	-	2
Pelvic neoplasm	i	•	_	_	1	_	_	-	-	-
Excessive amniotic fluid	1	-	1	-	_	_	_		-	-
Multiple pregnancy	ī	-	-	_	_	_	1	_	-	-
Placenta & cord abnormality	4	- Comp	-	2	_	_	1	1	-	-
Unattended delivery	2	_	1	-	_		_	<u> </u>	-	1
Post maturity	ı	_		***	1	_		-	•••	1
Trauma	ī	980	-	1	_	_	-	-	-	-
Incompetent cervical os	ī		_	_	1	_	gun.	_	-	-
Maternal neglect or ignorance	1	-	1	-	_	_	-	-	-	-
Endocrine	2	_		_	_	_	-	-	-	_
Drugs	1	_	_	1		_	-	-	-	2
Inadequate prenatal care	ı	-	_	1	-	-	-	_	-	-
None	15	_	1	6	5	-	_	-	-	_
Unknown	21	_	⊥ 4	14 0	ა 8	3 2	2	-	-	-
Not stated	3	-	-	2	1	_	2	1	-	-

FETAL AND NEONATAL DEATHS FROM ANOXIA AS PERINATAL CAUSE BY MATERNAL COMPLICATIONS

	Primary Cause		Secon	dary Cause
Cause	Fetal*	Neonatal**	Fetal*	Neonatal**
TOTAL	56	14	56	14
Premature Labor	8	6	2	1
Premature rupture membranes	2	_	2	1
Premature separation placenta	15	2	1	-
Placenta previa	3	1	2	1
Malnutrition or obesity	-	-	-	1
Threatened abortion	-	-	-	1
Heart disease	1	-	-	_
Diabetes	-	1	-	-
Surgery	-	-	1	-
Multiple pregnancy	_	-	14	-
Abnormal presentation	3	-	1	-
Placenta & cord abnormality	16	2	4	-
Prolapsed cord	3	-	2	1
Hemorrhage	-	-	3	1
Hypertensive toxemia	3	-	1	_
Rapid delivery	460	-	1	1
Unattended delivery		1	-	map.
Trauma	1	_	1	-
Emotional disturbance	-	-	1	-
None	1	_	_	-
Unknown	-	1	_	-
Not stated	•	•	30	6

^{*}Total fetal deaths - 214 **Total neonatal deaths - 264

WEEKS OF GESTATION AT FIRST EXAMINATION

Weeks	Fetal	Neonatal
TOTAL	214	264
No exam prior to admission at hospital for delivery	5	16
1 - 13	99	137
14 - 26	58	71
27 - 39	20	8
40 and over	1	_
No information from questionnaire		
and not stated	14	16
Not stated	17	16

NUMBER OF ANTEPARTUM EXAMINATIONS FOR FETAL DEATHS EXCLUDING THOSE WITH PREMATURE LABOR

Number of Examinations	Number
TOTAL	158
1 - 3	23
4 - 6	26
7 - 9	33
Over 9	47
None	4
Not stated	15
Blank spaces	10

ANTEPARTUM CARE FETAL

Extent	Number
TOTAL	214
Adequate	116
Inadequate	67
None	12
Unknown	15
Not stated	4

PHYSICIAN'S OPINION

Might Death Have Been Prevented

Answer	Fetal	Neonatal
TOTAL	214	264
Yes	41	26
No	130	196
Possibly	10	10
Unknown	2	3
Not stated	31	29

INFECTION IN MOTHER DURING PREGNANCY

Cause	Fetal Number	Neonatal Number
TOTAL	214	264
Intrauterine Sepsis Pneumonia	-	- - 1
Urinary tract Meningitis	-	- -
Rubella Viral	-	- 2
Tuberculosis Cervico-vaginitis	-	-
Syphilis None	1 213	261

FETAL AND NEONATAL INFECTIONS

Cause	Fetal Number	Neonatal Number
TOTAL	214	264
Intrauterine Sepsis Pneumonia Urinary tract Meningitis Rubella Viral Tuberculosis Cord infection	1	3 6 1 1
Syphilis None	213	253

TYPE OF DELIVERY

Method	<u>Fetal</u>	Neonatal
TOTAL	214	264
Spontaneous	149	195
Low Forceps	12	16
Mid Forceps	1	2
High Forceps	-	1
Manual rotation	1	
Instrumental rotation	-	
Breech extraction	18	20
External version	-	-
Internal podalic version	2	-
Low cervical cesarean	10	8
Classical cesarean	10	Ц
Cesareanhysterectomy (porro)	_	2
Primary low cervical section	-	-
Repeat low cervical section	-	1
Primary classical cesarean	11	-
Repeat classical cesarean	_	ı
Not stated	7	14

AUTOPSY	- FETAL	
MOIOESI	- FEIAL	

AUTOPSY - NEONATAL

	Number	Percent		Number	Percent
TOTAL	214	100.0	TOTAL	264	100.0
Yes	7	3.3	Yes	52	19.7
No	207	96.7	No	212	80.3

DIAGNOSTIC PROCEDURES

	<u>Fetal</u>		Neonatal	
Type Used	First	Second	First	Second
TOTAL	214	214	264	264
X-ray	2	-	48	2
Lumbar puncture	-	-	2	1
Stool culture	-	-	ı	_
Blood study	-	-	19	16
Coomb's Test	-	•	16	11
Culture	~	-	4	3
Autopsy	7	-	24	19
None	205	214	150	212

AGPAR SCORE

Agpar Score	Number
TOTAL	264
00	7
01	23
02	30
03	25
04	19
05	16
06	10
07	18
08	14
09	22
10	7
Not stated	73

BIRTH INJURY (Listing of 9 other Birth Injuries) 1967 Births

Type of Injury	Number
Molding of head	2
Brachial plaxus paralysis	1
Erb's Palsy RUE	1
Loss muscle tone, left leg	1
Cut on left cheek	1
Contusion face	1
Possible left axillary nerve injury	1
Superficial marks on cheeks	1
Total	9
Listing of 13 other Birth Injuries 1968 Births	
Bruise or abrasion	6
Brachial plexus injury	2
Facial paralysis	2
Left Erb's paralysis	1
Ecchymosis to lips, nose, and left temple	1
Hematoma	_1_
Total	13

CONGENITAL MALFORMATIONS - BIRTH CERTIFICATES 1967

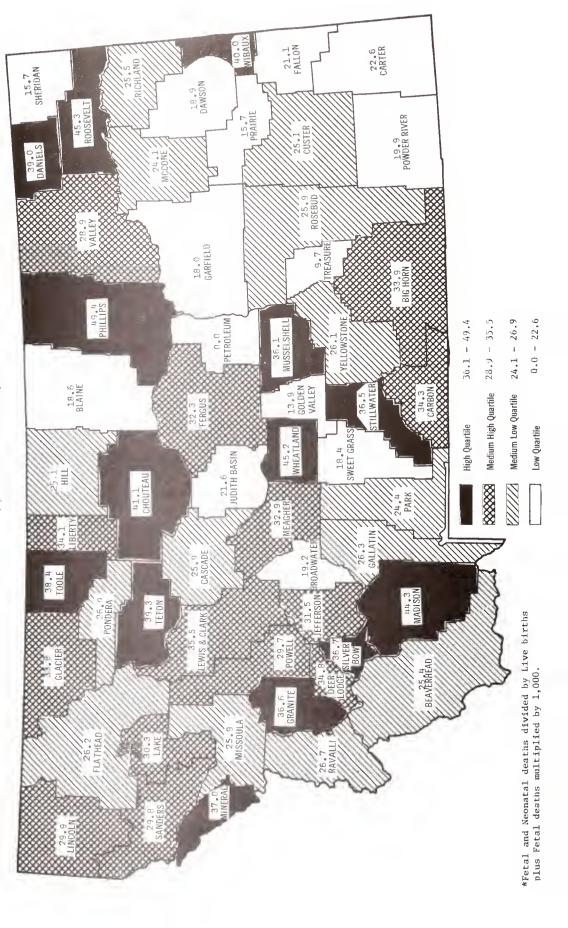
Total listed	145
Cleft palate - cleft lip	18
Bone-joint defects	18
Genitourinary	15
Ear defects	14
Heart-circulation defects	14
Club foot	12
Hydrocephalus	8
Spina bifida	7
Defects of digestive organs	6
Poly or syndactylism	6
Nervous and Mongolism	6
Hemangioma	5
Muscle defects	3
Multiple congenital anomalies	3
Other defects of oral cavity	3
Skin tags	2
Micrognathia	1
High arched palate	1
Congenital goiter	1
Cyst	1
Disphragmatic hernia	1

CONGENITAL MALFORMATIONS - BIRTH CERTIFICATES 1968

Total listed	148
Cleft palate - cleft lip	20
Genitourinary defects	17
Heart defects	16
Club foot	16
Bone - joint defects	15
Poly or syndactylism	11
Hydrocephalus - anencephalus	8
Spina bifida	7
Ear defects	€
Nervous and Mongolism	5
Diaphragmatic hernia	5
Defects of disgestive organs	5
Muscle defects	3
Eye defects	2
Hemangioma	2
Skin tags	2
Nose defects	2
Micrognathia	1
Polycystic disease	1
Mild sternal diaphram adhesion	1
Pigmented nevus	1
Teratoma	1
Other chomosomal abnormalities	1

FIVE YEAR PERINATAL DEATH RATES

(By Place of Residence)



As we have done the previous two years, we reviewed the items submitted to your office for any trends developing over the last five years. Each item is discussed separately.

After ten years of usage, the birth certificate was revised on the national level. Montana also changed its certificate to comply as much as permissable with the national standard and began using the new version on January 1, 1968. Quite a few changes have been incorporated, we hope for the better, especially in the confidential section. New items were added, some were changed, and some were completely deleted. Therefore, in some instances it is very difficult or even impossible to make statistical comparisons over the last years. We will have to wait in order to see any trends.

One item deleted is "length of pregnancy". Instead, the date last normal menses began is given. This permits us to compute the length of gestation by computer. Since 40 weeks is considered term, one would expect, when plotting the length of pregnancy, a normal curve peaking at 40 weeks, but slightly skewed to the left (the early months) by chance alone. As you can see by the attached graph prepared from the computer print-out, this is actually the case. This method to arrive at the length of pregnancy, is statistically more valid than the one in which the doctor states the gestation period. In the early months doctors seem to determine the elapsed time quite accurately (with preference to the even numbers), but during the last month of pregnancy, they add their personal and professional judgment as to appearance of the baby, no matter how long the mother carried the baby according to the calendar.

As can be expected, the new way of figuring the length of pregnancy incorporates errors in the mother's memory as to when she had her last menses. It also shows problems in the menstrual cycle of a woman. This year, also, inconsistent reporting due to people not being used to the new requirements for information resulted in some unbelieveable figures. 1.3% of the births occurring to Montana residents delivering in Montana were stated to have had a gestation period of less than 16 weeks. 4.6% of the births were carried over 45 weeks. 1.7% had the date of last menses not stated. 43.6% of the births were carried less than 40 weeks, 34.0% over 40 weeks, and 20.7% exactly 40 weeks. 52.4% of the babies were term babies; that is, they had a gestation period of 39-41 weeks. 63.1% were carried 38-42 weeks, which is considered term by some authorities. There were 9.8% premature births; that is, under 36 weeks of pregnancy. The over all picture should remain the same over the years, but we expect improvements in reporting, and thus fewer births in the extreme months and in the "not stated" group.

Item 21: "Weight at birth":

7.5% of the births were 5 lbs. 8 oz. or less and thus considered premature. For the last five years the range spread from 7.1% in 1964 to 8.2% in 1966. Since 1966 the "weight not given" group has remained at 0.2%. In order to correlate weight at birth with length of pregnancy, we will have to wait a few years because the old and new methods of computing the gestation period are not comparable. One must observe the performance of the new method over several years to make a meaningful analysis.

Item 19a: "Month prenatal care began":

This is also a new item. Therefore, many people again did not enter this item on the certificate because they were not used to it. 2.1% of the births were not stated. 34.0% of the mothers started going to the doctor in their second month of pregnancy, 27.0% in the third. 70.9% went during the first trimester, 22.2% during the second, and 4.7% in the third. Since women should see the doctor early and regularly during pregnancy, we hope for an improvement in these data. If the next years do not show an increase of percentage during the first trimester, a program to correct this might be in order. It is also interesting to note that unwed mothers seek the doctor's care later than married women: only 35.1% sought medical care for the first time during the first trimester, and 35.9% during the second. 20.0% went to the doctor in their last trimester or not at all.

Item 19b: "Number of prenatal visits":

This, again, is a new item. We hope that this information will help us to see if the pregnant woman receives sufficient care. Of course, some mothers don't need much supervision because the pregnancy takes its course smoothly and normally. However, we believe that even a health pregnant woman should see the doctor once a month at first, then more often during the last month. Therefore, most expectant mothers should visit the doctor at least nine times before delivery. Our figures show that 63.1% of the pregnant women did go to the doctor nine or more times. However, there were also 1.3% that didn't see the doctor at all before giving birth, and 6.3% visited the doctor only three or less times. 2.5% left this item blank on the certificate. We assume that this figure will shrink with usage. Again we find that the even numbers are preferred to the uneven numbers. This might be due to the practice of some hospitals gathering this information from the mother instead of from the doctor who keeps accurate written records.

Item 23: "Birth injury":

0.27% of the babies received an injury during delivery, the highest percentage in the last five years. However, the numbers are too few to make an analysis meaningful.

Item 25: "Congenital Malformations":

1.28% of the babies were born with a congenital malformation. There are again too few numbers for analysis.

Item 22: "Complications of pregnancy":

24: "Complications not related to pregnancy":

26: "Complications of labor":

On the new certificate the item "complications of pregnancy and labor" has been divided into the above-named three items. This will permit us to determine trends and health problems more readily in the future. However, this year (1968) it is difficult or even useless in some instances to make an analysis, although we had not changed our coding procedure significantly. But, as of January 1, 1970, a new

set of codes, which have been approved by Dr. Dawson, will be used for each item. We hope these will yield good and meaningful data on health problems concerning pregnancy in the future. Some information is quite apparent already, however. Toxemias account for 63.1% of all complications of pregnancy. Complications during labor occur more often each year, which either means that the doctors are more conscientious in reporting such problems, or women really do have more trouble when delivering their babies. The future years will give us detailed information as to which problems arise during labor. The overall percentage of complications of pregnancy and labor has also increased steadily over at least the last six years, but this is probably due to the increase in labor difficulties. The big jump from 11.3% in 1967 to 14.0% in 1968 could be explained by the few changes in coding we did have to make. For one thing, instead of only one code for "other" we now have three, and many conditions are lumped now into this code that have not been coded before.

Item 27: "Operations":

18.8% of all deliveries needed help through a surgical procedure other than episiotomy. This is the first time in six years that the percentage is lower than the one in the preceding year. The use of cesarean section has increased, also the practice of inducing labor. 56.4% of all operations performed were deliveries with the aid of low forceps which is a large jump from last year. The use of low forceps had increased steadily each year before, too. Either more doctors make this a routine procedure, or the increased labor difficulties necessitate an increased use of instruments. Also, more doctors report the use of high forceps each year. There are still less than ten cases, though.

Item 28: "Prophylaxis used":

After checking as far back as 1963, the same trends are apparent: the use of silver nitrate decreases rapidly, and the use of antibiotics increases accordingly. This year, however, more sulfa drugs were used than in the preceding years. The percentage of "no prophylaxis used" has dropped from 4.0% to 1.2% of all Montana births.

We are currently engaged in analyzing and correlating some of the new items further. So far you have received our study on month prenatal care began as it relates to education of the mother. Future studies will be distributed as they are completed. We would be very interested in any comments you might have on these studies, and in any suggestions as to what you would like to see compared or correlated.

If you have any questions regarding this analysis, or if you would like additional information, please let us know.

44 45+ -17 Number of Live Births

Length of Gestation in Weeks

Montana, 1968 (Infants born in Montana to mothers who were Montana residents)

LIVE BIRTHS BY GESTATION AGE:

MONTH PRENATAL CARE BEGAN BY COUNTY

At Dr. Anderson's suggestion, we have prepared a tabulation which shows the number and percent of live births by month prenatal care began for Montana counties for 1968. Also attached are charts which depict this information graphically for selected counties. Since it becomes confusing if too many lines appear on a single graph, we selected a "good" county and a "bad" county for display on each graph. This minimizes the intermingling of the lines.

Counties were selected for graphic presentation by summing the percent figures in the first trimester. "Good" counties selected were those that had in excess of 77% of mothers who initiated prenatal care in the first trimester; "bad" counties were those where less than 55% initiated care in the first trimester. Graphs were not prepared for counties with only a few live births over the entire year.

When these counties are displayed, it will be noted that in each case, the "bad" county is also an "Indian" county. With this in mind we then prepared another tabulation which shows the month prenatal care began by race of mother. It is readily apparent on the basis of this criterion that the prenatal care of Indians is inferior to that of whites.

The federal government has been responsible for providing medical care for Indians for over 80 years. The goal of the Division of Indian Health is "to raise the health status of the American Indian and Alaska native to the highest possible level." It would appear, based on these data, that even the more modest goal of bringing the level of Indian health up to that of the white community is indeed a long term one.

Note that the scales on all graphs are identical so that the lines on one graph can be compared with those on another. The chart containing Gallatin and Glacier Counties represent the two counties at the extreme ends of the spectrum.

Because percentages are used, the areas under the curves are equal for all counties.

We are also enclosing a chart which shows the percent of birth certificates filed by county with month prenatal care began not stated. We have observed in the past that careful completion of vital records is often closely correlated with quality of medical care.

lan act to ratify and confirm an agreement with the Gros Ventre, Piegan Blood, Blackfeet, and River Crow Indians in Montana was signed by representatives of these tribes on December 28, 1886, and approved by the 50th Congress in 1888. Chapter 213, Article III. This treaty provides in part for "... procuring medicine and medical assistance..."

²The Principles of Program Packaging in the Division of Indian Health, U.S. Department of Health, Education and Welfare, Public Health Service, Bureau of Medical Services, January 15, 1966.

LIVE BIRTHS BY MONTH PRENATAL CARE BEGAN
Montana Counties, 1968
(Mothers who delivered in Montana and were residents of Montana)

	Tot	Total			7	<u>.</u>	n		4		5		9		7		∞		6		NC	Not
County	No.	54	No.	84	No.	%	No.	82	No.	64	No.	24	No.	34	No.	84	No.	24	No.	84	No	*
TOTAL, All Gounties	11733	100.0	1162	9.9	3994	34.0	3163	27.0	1310 1	1.2	792	6.8	505	4.3	295	2.5	179	1.5	83	0.7		2.1
Beaverhead	142	100.0	6	6.3	51	35.9	97	32.4	16 1	11.3	11	7.7	4	2.8	Н	0.7	m	2.1	i	0	H	0.7
81g Horn	214	100.0	14	6.5	65	30.4	ဗ္ဗ	17.8	19	8.9	18	8.4	19	8.9	12	5.6	6	-2)- 	ςν.		r-4	6.5
glaine	118	100.0	9	5.1	26	22.0	33	28.0	15 1	12.7	17	14.4	13	11.0	г	8.0	5	4.2	7	1.7	ı	0.0
Eroadwater	43	100.0	7	16.3	12	27.9	10	23.3	6 17	14.0	2	11.6	Н	2.3	-	2.3	ı	0.0	ı	0	7	2.3
Carbon	84	100.0	11	13.1	26	31.0	18	21.4	12 1,	14.3	6	10.7	4	4.8	2	2.4	1	0.0	Н	1.2	Н	1.2
Sarter	25	100.0	2	20.0	5	20.0	9	24.0	6 24	4.0	H	0.4	ı	0.0	-	4.0	i	0.0	i	0	H	4.0
Cascade	1618	100.0	145	0.6	538	33.3	441	27.3	199 12	ε.	117	7.2	82	5.1	45	2.8	24	1.5	7	7.0	20	1.2
Chouteau	97	100.0	ı	0.0	34	35.1	32	33.0	15 1:	5.5	10	10.3	7	2.1	2	2.1	ì	0.0	ı	0.0	2	2.1
Custer	203	100.0	26	12.8	79	38.9	51	25.1	50	6.6	14	6.9	4	2.0	က	1.5	-	0.5	2	1.0	9	1.5
Vanfels	27	100.0	-	3.7	7	25.9	10	37.0	2	7.4	9	11.1	٦	3.7	64		7	3.7	ı	0.0	ı	0.0
Davson	203	100.0	22	10.8	75	36.9	51	25.1	18	6.8	16	7.9	7	رب ج <u>ب</u> م	σ0	3.9	n	1.5	ı	0.0	ന	1.5
Deer Lodge	206	100.0	13	6.3	67	32.5	53	25.7	33 16	O · ·	16	7.8	11	5.3	4	1.9	-	0.5	H	0.5	7	3.4
Fallon	82	100.0		ω ·	19	23.2	25	30.5	15 18	8.3	7	8.5	Э	3.7	n	3.7	Н	1.2	1	0	2	2.4
Fergus	194	0.001	20	10.3	79	40.7	38	19.6	20 10	.3	13	6.7	6	9.4	7	3.6	9	3.1	ı	0.0	2	1.0
Flathead	678	100.0	74	74 10.9	262	38.6	186	27.4	59 8	8.7	41	0.9	23	3.4	14	2.1	11	1.6	'n	0.7	n	7.0
Callatin	490	100.0	53	10.8	223	45.5	121	24.7	49 10	0.0	19	3.9	10	2.0	9	1.2	2	4.0	٦	0.5	9	1.2
Garfleld	31	100.0	æ	9.7	တ	25.8	0	29.0	4 12	6.0	- 2	16.1	H	3.2	ı	0.0	-	3.2	ı	0.0	1	0.0
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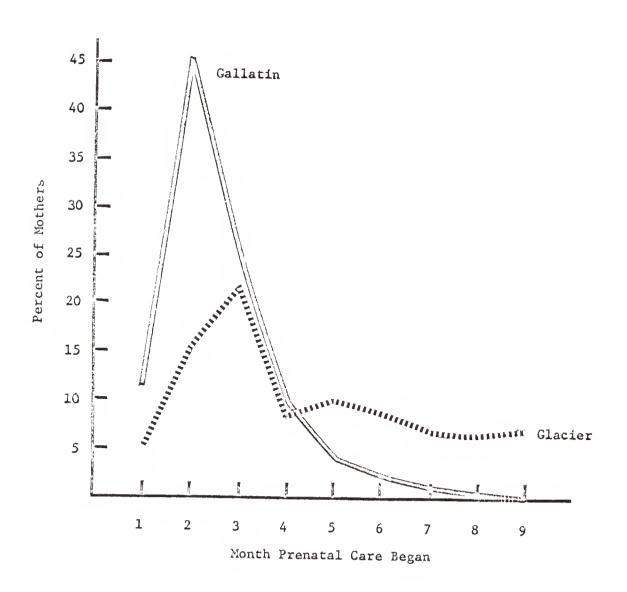
LIVE BIRTHS BY MONTH PRENATAL CARE BEGAN, CONTINUED Montana Counties, 1968 (Mothers who delivered in Montana and were residents of Montana)

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	Total	a1	1		2		3		4		5		9		7			œ		6	St	Not Stated
4	No.	%	No.	89	No.	82	No.	%	No.	24	No.	%	No.	25	No.	%	No.	%	No.	%	No.	%
	220	100.0	11	5.0	34	15.5	27	21.8	18	8.2	22	10.0	19	8.6	1.5	6.3	14	6.4	15	6.3	24	10.9
	17	100.0	9	35.3	2	29.4	2	11.8	2	11.8	t	0.0	1	0.0	1	0.0	₩	5.9	1	0.0	1	5.9
<u>-</u>	94	100.0	7	4.3	10	21.7	15	32.6	6	19.6	9	6.5	n	6.5	Н	2.2	1	0.0		2.2	2	4.3
	237	100.0	36	12.5	82	28.6	75	26.1	27	4,6	23	8.0	16	5.6	11	3.8	<u>س</u>	1.0	<i>(۳)</i>	Ç.	9-m2 9-m2	ည အ
Jefferson	71	100.0	9	8.5	16	22.5	22	31.0	6	12.7	7	6.6	4	5.6		1.4		2.3	\$	5.0	l	0.0
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u)	551	100.0	63	11.4	214	33.8	152	27.6	54	8.6	28	5.1	17	3,1	12	2.2	5	0.9	3	0.5	m	0.5
	37	100.0	ī	0.0	14	37.8	12	32.4	7	18.9	2	5.4	н	2.7	1	0.0	← 1	2.7	1	0.0	1	0.0
	323	100.0	28	8.7	1111	34.4	92	28.5	4.1	12.7	18	5.6	19	5.9	47	1,2	77	1.2		0.3	2	1.5
•	4.1	100.0	7	17.1	14	34.1	11	26.8	2	6.4	2	4.9	2	6.4	1	0.0	-	2.4	ı	0.0	2	6.4
	64	100.0	ಐ	12.5	17	26.6	21	32.8	7	10.9	2	3.1	m	4.7	(N)	بط دي	1	0.0	1	0.0	7	6.2
	34	100.0	Ä	2.9	8	23.5	6	26.5	77	11.8	3	ထ	72	14.7	1	0.0	t	0.0	1	0.0	\$7	11.8
	649	100.0	77	8.2	1,4	28.6	10	20.4	EC)	10.2	Uη	10.2	9	12.2	2	4.1	2	4.1	٦	2.0	1	0.0
으	1063	100.0	15.	14.4	419	39,4	292	27.5	3/6	8.8	84/	4.5	27	2.5	8	0.8	ස	0.8	<>	0.4	1.0	6.0
Musselshell	59	100.0	Ю	5.1	1.5	25.4	1.6	27.1	9	10.2	6	15.3	2	8.5	Н	1.7	m	5.1	1	0.0	-1	1.7
	163	100.0	21	12.9	55	33.7	20	30.7	11	6.7	11	6.7	S	3.1	2	3.1	2	1.2	1	0.0	3	1.8
Petroloum	6	1.00.0	H	11.1	7	44.4	3	33.3	ı	0.0	1	0.0	ī	0.0	I	0.0	Н	11.1	1	0.0	ı	0.0
Phillips	97	1.00.0	က	8.2	36	37.1	25	25.8	11	11.3	œ	8.2	3	3.1	2	2.1	1	1.0	-	1.0	2	2.1
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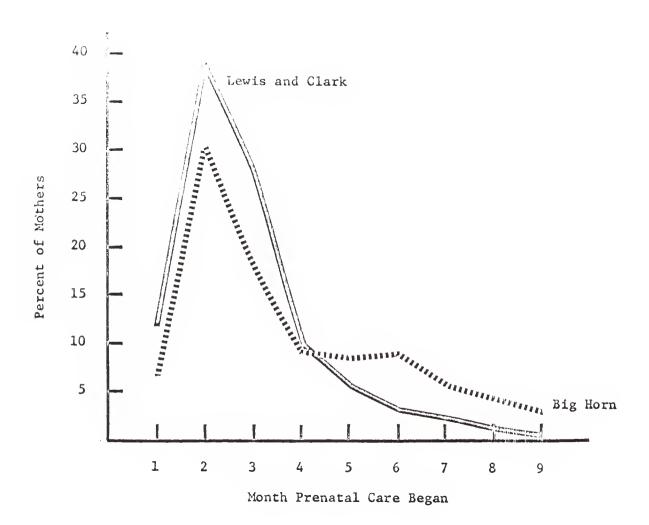
LIVE BIRTHS BY MONTH PRENATAL CARE BEGAN, CONTINUED Montana Counties, 1968 (Mothers who deliverd in Montana and were residents of Montana)

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H. 196 100.0 10. 10. 13. 13. 12. 36.7 54. 12. 13. 10. 14. 10. 15. 10. 15. 10. 10. 15. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	rairic	20	100.0	3	15.0				20.0		15.0	2	10.0	Н	5.0	7	5.0	ı	0.0	ı	0.0	1	0.0
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Fig. 126, 100.0	tchland	159	100.0	9	3.8	35		2	28.3	28	17.6	18	11.3	10	6.3	00	5.0	n	1.9	Н	9.0	5	3.1
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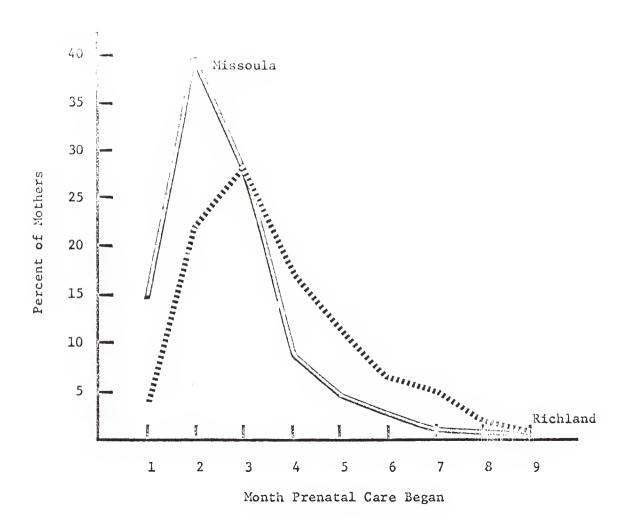
PERCENT OF LIVE BIRTHS BY MONTH PRENATAL CARE BEGAN: Gallatin and Glacier Counties, 1968



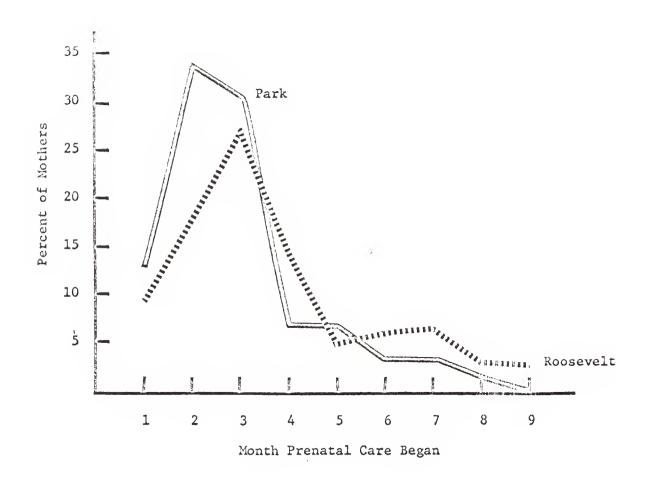
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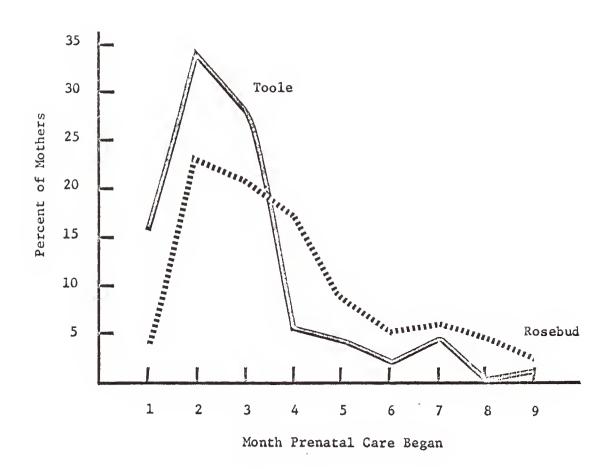
PERCENT OF LIVE BIRTHS BY MONTH PRENATAL CARE BEGAN: Missoula and Richland Counties, 1968



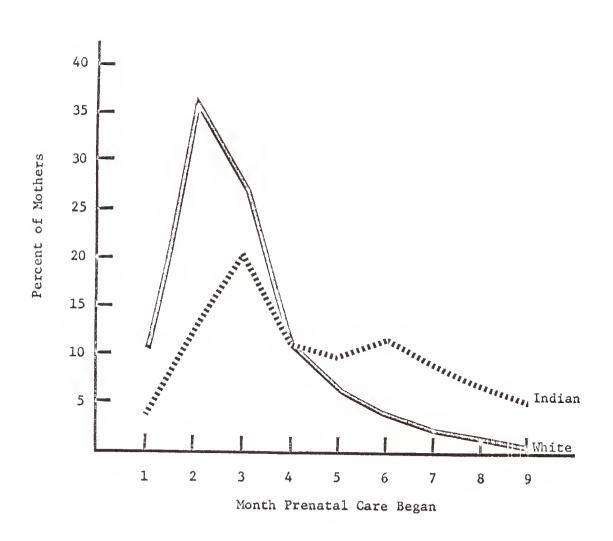
PERCENT OF LIVE BIRTHS BY MONTH PRENATAL CARE BEGAN: Roosevelt and Park Counties, 1968



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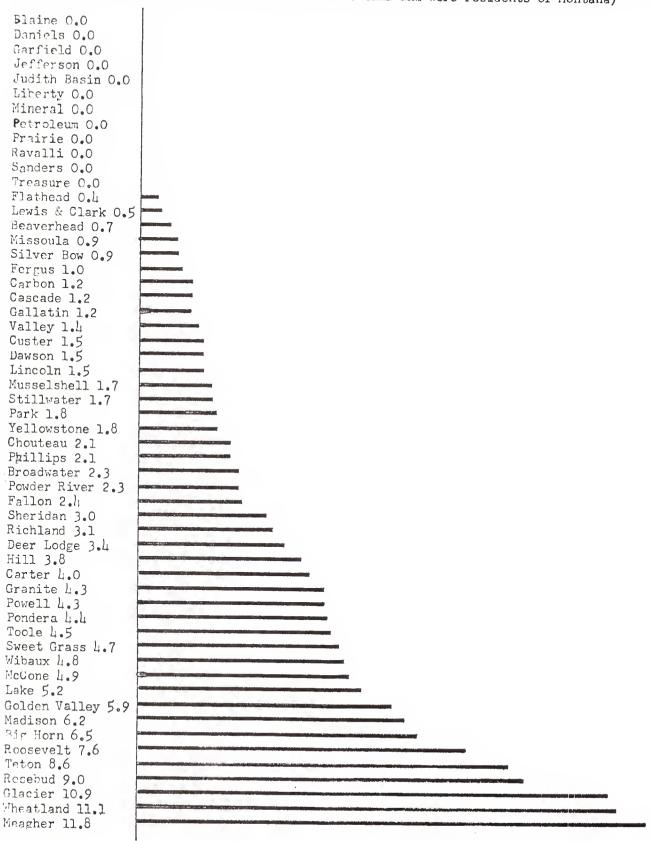
MONTH PRENATAL CARE BEGAN BY RACE OF MOTHER: Montana, 1968 (Montana residents delivered in Montana)



MONTH PRENATAL CARE BEGAN BY RACE OF MOTHER Montana, 1968

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length of Gestation by weeks live rikih - Montana residents - 1968

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COUNTIES Item 25d

Congenital Malformations

	Total	1	2	33	4	5	6	7	8	9	11	
Beaverhead	3	-	1	-	11	5 1	-	T -	-	-	-	
Big Horn	7	7	-	_	-	-	3	1	-	_	2	
Blaine	1	-		_	-	-	1-		-	-	1	
Braadwater	1	-	 -	-	-	_	 	 -	_	-	Ti	+
Carban	2	-	1			 	 		1	 	1 7	
Carter	,				-	-	-	-		=		
Cascade	15	4	1 7	+- 	1 7	 				 -	 -	1
Chouteau				 	-		2	 		-	5	
Custer	3 2				 	-			-	-	3 2	
Daniels			-		-	 	-	+ -	-	-		
Dawson	1	-			-		-]	-	-	-	ļ
Deer Ladge	-	 -					ļ -			-	 -	
Fallan		 	-	-	-	-	-	-			-	+
Fergus				-	•=	-	-	-		-	-	-
Flathead	1		-		-		-		11_	-	 -	
Gallatin	4	 -	1 1		-	1 1	-			-	2	
Garfield	5		-	1 1	 		 -			-) l	
Glacier		-	-			-		-		-	-	
Galden Valley	5	2	-	1_1_	-		-	-		-	2	-
		 - -	-	-	-	-	-	-		-		
Granite U:11	1	-		-	-	-	-	-	11	=-	-	
Hill	6		-	1		-	-			-	4	
Jefferson .	1_1_	-	-				ļ_ -	-			1_1	-
Judith Basin		 - -	-	-			-	-			-	
Lake	- 4		-	1	-		1	-	-	-	2	
Lewis & Clark	7	1	-	-	-	-	1	2			3	
Liberty	-				-	-	-	-	-	-		
Lincoln	6				-	2			1		3	
McCone			<u> </u>		-	-		-				
Madison	3		-	1	1		-				1	
Meagher	ĭ		_		-	ļ	1	<u> </u>			-	
Mineral					-	-	_				-	
Missaula	9	1	1	-		1	1	2			3	
Musselshell	3	1					2					
Park	4	-	1	-		_		7	_		2	
Petraleum			-									
Phillips	1			1			_					
Pondera	-	-		_						**		
Pawder River	1	1_1_				-	-			PH		
Pawell	7	_		_	_	_	_				1_1	
Prairie			t-0			_		_				
ƙavalli	55	1		_	1					-	2	
Richland ·	4	1	-	7		_	י	_	_		1	
Raasevelt	3	_	_	7	_	7	_	_	ו			
Rosebud	7		_	_	_		7	_		44		
Sanders	1	7	-					_				
Sheridan				_	_		-	1			2	
Silver Bow	3 9	2	_		7		2	2	7		_	
Stillwater	_	_	_	_	_		_				_	
Sweet Grass	_	_	_	_	_	_	_	_	_	4-		
Teton	1		_	-		-	_				7	
Taale	2						1	7	-		-	
Treasure	_											
Valley	5						2	-	7	7	1	
Wheatland	-									1		
Wibaux		_					-					
Yellowstane	13	2	-	1.				-			~	
· criowarune				<u> </u>							5	
TOTAL	145	18	7	12	6	8	18	14	6	1	55	
								<u> </u>			-	1

LIVE BIRTHS - MONTANA RESIDENTS - 1968 Congenital Malformations

Beaverhead Big Harn Blaine Broadwater Carban Carter	1 4 2	1 -	2	3	4 -	5	6	7	8	9	11	
Blaine Broadwater Carbon	2		+	1		_	_	7	ł.	1		
Broadwater Carbon	2		-			-		1		-	-	-
Carbon		_	T -	710		-	1	-		 	4	
	_	_					1	1 1			-	
Carter	2	1		1400	 -		-	-	+ -			
								_	 	<u> </u>		
Cascade	18		-	-			-			-	<u> </u>	
Chauteau	1	3	2	2	1	1	2	2		-	5	
Custer	2			-	-			1		-		
Daniels		-		-	-	-		-	-	-	2	
Dawson			-	-	-	-	100					
Deer Ladge	1		-	1				-			-	
Fallon	3	1					1	-			1	
Fergus	1 3			-	1		-					
Flathead		1	-		_	-				-	2	
Gallatin	17	1	2	2	1	-	1	3	-	1	6	
Garfield	5	2		1		-	1	-			1	
Glacier	1		-	-			-	-			1	
	2		-	1			-	_	1		_	
Golden Valley					_	_	_	-			-	
Granite	1	1		-	-	_		_	-	_	-	
Hill	6			1	2	_	_	1	1	_	1	
Jefferson	_1				_			1	_	-	-	
Judith Basin			_	-	· _	-	_		_	_	-	
Lake	2	-			11		-	-	_	-	1	
Lewis & Clark	8	3		1	1		1	2	_	-	_	
Liberty	2		_					2	_	-	-	-
Lincoln	6		2		_		1	- 0	-	_	3	
A'cCone			-			-	_	-	-	_	_	
Madison	2	-			_	-	-	1		-	1	
Meagher	1	-	_		-	_	-	-	-	-	1	
Mineral	2			1	-	1	-	_	-	_	_	
Missaula	9	2	_	-	-	2	2	-		2	1	
Musselshell		_	-	_	-	_	-	_	- 1	_	_	
Park	3	1		-		_	-	-	-		2	
Petroleum	-		-		_		-		-			
Phillips	1	_		-	_	1	-	-	-	-	-	
Pandera	3	-	_		1	-	-	1	-	_	1	
Powder River	1	-		-		_	1	-	-	_	-	
Powell	-	-	-			_			-	_	-	
Prairie	-		-	-			- 1	_	_	-	-	
Ravalli	2	_	-	-	-		-		-		2	
Richland ·	3	-	-	-	1	_	-	- 1		-	2	
Raosevelt	3		- 1	-	1	_	1	-	-	-	1	
Rasebud	2	-	- 1	_	_	_	-		-		2	
Sanders	_	-	-	_	-		_	-				
Sheridan	-	- 1	-	- 1	_	_	-	-		_		
Silver Bow	10	2	_	3	1	1	1					
Stillwater	_	_	-	_	-	_	-	-	===	1	1	
Sweet Grass	-	-			_	_		_	-			
Teton	- 1	-	_	-		_	-	-	-			
Toole	-		-	-				-				
Treasure	-	-	_			_		-			_	
Valley	3		-	1	_	1						
Wheatland	_	_		_	-						1	
Wibaux	- 1		_		_	_	-		- 4	-	-	
Yellowstane	14	2	1	2		1	2		2	7	-	
1					_	1				1	3	
TOTAL 1	L48	20	7	16	11	8	15	16	5	5	45	

LIVE BIRTHS - MONTANA RESIDENTS - 1968 Operations

	Tota1	1	2.	3	4	5	6	7	Q	O.	11	
Beaverhead	16	5	2.		T -	9	6	7	8	9	11	
Big Horn	31	7	+						-			
Staine	13	4	-	-	1	20	2		1	-	-	
Braadwater				 -		6	1	-	2	-	-	
Carban	7	1				2	1	***	1	2	-	
	14	3		-	1	10	_	_			_	
Carter	2	_	_	-		-		-	2	-	_	
Cascade	194	49	_	_	1	69	3	3	68	1		
Chauteau	6	3		_	_				3		_	
Custer	22	9			_	10	1		2	_		
Daniels	2			_		2						
Dawson	37	8	2	_	-	9	-	1	17		· -	
Deer Lodge	35	6				6		-	23	_		
Fallan	14	2	_	_	_	2	_	-	10	_	_	
Fergus	16	9	_	_	.1	3	_		2	1	-	
Flathead	154	26	2	_	2	97	2	3	16	6	_	
Gallatin	220	15	2	1	11	123	1	_	41	25	1	
Garfield	9	3	-		-	6	_	_	_	_	_	
Glacier	11	4			-	2	_	1	4	_		
Galden Valley	7	3	_	-	_	4	-					
Granite	10	3	_	_	1	2	3		-	_	· -	
Hill	36	13				5	2		12	3	1	
Jefferson	10							-				
Judith Basin	1	3				5	-		2			
Lake	6	1				2	11	-	2			
	35	8	2	11	11_	16			3	44		
Lewis & Clark	119	26			11_	66	9		16	11		
Liberty	16		11	-	-	8			7			
Lincoln	28	11			_	10	1		6			
McCone	5	2				2			1		-	
Madisan	8	1		-		3			3	1	_	
Meagher	3	1		-		-		-	2		-	
Mineral	10	2	_		_	7			1	-		
Missaula	146	40	2		_ 4	97	2			1	_	
Musselshell	1.7	2		_	·-	15	_	_		-	_	
Park	23	8	-		1	6	1	-	6	1		
Petroleum	3	-	-	_	_	3	-	_	_	-	_	
Phillips	12	6		-	_	1		_	4	1.	_	
Pandera	21	9	-	_	-	11	1		_		_	
Pawder River	4	2	_	_	_	1	1	-	_		_	
Pawell	3	_ 1	_		_	2	_	_	_		_	
Prairie	5	1		_		2	_	_	2		_	
Ravalli	23	12				9	-	1	1	,	_	
Richland	42	3			2	34	1	2		8-19	_	
Raasevelt	20	9										
Rosebud	13	5			1	7 5	3	2	1			
Sanders	12	6				2	1		2	1		
h												
Sheridan	2	2				-	-		22			
Silver Baw	88	29		-	1_	23	-	1	32	1	11	
Stillwater	13	3				10	- ,					
Sweet Grass	5	1			1	2	1				-	
Tetan	. 7	2	-		1	3	-	-	1	NP-1		
Toale	11	5	_	-	-	4	-		2	-	-	
Treasure	2	-	-	-	_	2	-	_	-			
Valley	83	12	_	_	2	62	1	3	1	2	-	
Wheatland	5	2	-	-	-	2	1	-	-	-	_	
Wibaux	5	_		-	-	2		_	3	-	-	
Yellowstane	543	57	1	3	16	431	2 6	3	6	-		
TOTAL	2204	445	12	5	49	1242	68	20	309	51	3	

LIVE BIRTHS - MONTANA RESIDENTS - 1968 Prophylaxis

COONTIES 1	.cem 20							Not			
	Total	1_	2	3	4	5	0	Entered	ļ		
Beaverhead	142	82	57	1	_	_	2	-			
Big Horn	214	135	78	_	_	-	1	- 1			
Blaine	118	114	3	1	_		T -	-			
Broadwater	43	2	8	32	_	_	1	-			
Corbon	84	29	50	1	_	_	4	-			
Carter	25	4	21	_	_	_	_				
Cascade	1618	825	777	9	_	_	7	_			
Chauteau	97	73	24	_	_	_	_	-			
Custer	203	198	4	1_	_	_		_			
Daniels	27	7	19				11	_			
Dowson	203	32	170	1				<u> </u>			
Deer Lodge	206	203	2	1_	-	-					
Fallon	82	43	38		_		1	-			ļ
Fergus	194	115	70	1_	_		8				
Flotheod	678	250	418	3_		ļ <u>-</u>	7			 	
Gallatin	490	93	391	4	-	-	2	-		 	
Garfield	31	30	1	-		 -		-		 ļ	ļ
Glacier	220	81	130	1		-	8				1.
Golden Valley	17	17	_							 	
Granite	46	16	29	1				-		 	
Hill	287	267	18				2			 ļ	
Jefferson	71	29	25	16			1	-		 ļ	·
Judith Basin	38	21	17				_			 	-
Lake	212	58	145			<u> </u>	9	-		 ļ	ļ
Lewis & Clark	551	62	207	282		<u>-</u>	-	-		 	ļ
Liberty	37	6	30			-	1	-		 	ļ
Lincoln	323	130	188	1		-	4	-			-
A'cCone	41	16	23	2		-	-	-		 	
Madison	64	11	51			-	2	-		 	
Meagher	34	-	22	7	_		5			 ļ	
Mineral	1063	23	24	2	<u> </u>	-	7	-		 ļ	
Missoula	1063 59	28 56	1025		-		-	1 -		 	
Musselshell Pork	163	4	156				2	 			
Petroleum	9	8	1 1	11			-	-			-
Phillips	97	31	65	1				-			
Pondero	113	4	105	1			3			 	
Powder River	44	39	5	<u>_</u> _		_				 	
Pawell	94	77	10	6		_	1	_		 	
Proirie	20	18	2			_		_		 	
Rovalli	196	168	27				1	_		 	-
Richland ·	159	93	65	1				-		 -	
Roosevelt	224	190	32			-	2	 		 	
Rosebud	134	114	17	1			2	-		 	
Sonders	62	3	59					 		 	
Sheridan	67	65	1			_	1	-		 	
Silver Bow	760	738	16	_ 5			1			 	
Stillwater	60	21	36	1	_		2	-		 İ	
Sweet Gross	43	36	7							 	
Tetan	70	37	26		_		7	-		 	
Toole	89	67	17	1			4	-		 	
Treasure	16	10	5			_	1	-		 	
Valley	289	120	157	1			11	-		 	-
Wheatland	45	41	1 1	1		_	2	-		 -	
Wibaux	21	3	18	_		_		-			
			10	- 1						 	
Yellowstone				۷.	_	1	9	-			
Yellowstane	1391	1356 6299	4917	4	_	1	9				

Basevirkend July 138 1 - - 2 1		LATOT	0	1	2	3	4	5	6	77				
Signary Sign	Beaverhead	142	138	1		_	T							
Blaine	Eig Harn	214		7	_	1	_							
Broadwater	Blaine						-							
Carbon Carter 25	Broodwater										 	 		
Carter 25 25 - -	Carhon			1			1				 			-+
Cescade 1618 1591 - 2	Carter				7		7				 	-		-
Chouse 27	Cascade	7679					1-							
Custer 203 197 2 1 -		i						+	4	1-19			+	+
Daniels 27 27 1									-		 		_	-
Deer Ladge 206 203 2	- ·					+			1		 	-	-	-
Deer Ladge							1					-	-	-
Fedition				 				<u> </u>	1 1	1		-	-	-
Fergus 194 190 1 1 2 - Flothead 678 665 2 3 - 2 1 4 1 1 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					-	1 1		-	-			-	-	-
Flathead G78 G65 2 3 - 2 1 4 1 1 1 1 1 1 1 1								-		-	-	-	-	-
Galletin	•					-						-		_
Garleid 31 31							2	1				-	-	-
Solution 10 10 10 10 10 10 10 1				1	2		1_1_	-	7	33				_
Golden Valley 17					-		-		· · · · · · · · · · · · · · · · · · ·	801				_
Granite 46 15 - 1 - - - - - 1 1 287 277 3 2 - 1 2 2 2 3 2 1 69 - 1 - - - 3 3 3 3 - - - - 3 3 3 3 - - - - 4 4 4 4 - - - 5 4 5 5 6 7 7 69 - 1 - 6 - 7 7 69 - 1 - 7 8 3 3 3 - 8 3 3 3 - - - - 8 8 1 1 1 1 8 7 7 7 7 9 7 7 7 1 8 7 1 8 7 7 1 8 7 1 8 7 7 1 8 7				1	1	+	-	-	2					
Granite				-	-	1	_	-		1,				
Hill 287 277 3 2 -						-	-	-	+	**				
Jeffersan				3	2	_	-	1	2	2				
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Necone	Lincoln	323	320	-	1	-	1	-	1	-				
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LIVE BIRTHS - MONTANA RESIDENTS - 1968 Number of Prenatal Visits

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COUNTIES		Beaverhead	Eig Horn	Glaine	Carbon	Carter	Cascade	Chouteau	Custer	Daniels	Dowson	Deer Lodge	Fallon	Fergus	Flatheod	Callatin	Garfield	Glocier	Golden Valley	Granite	= :	Jefferson	Judith Basin	Lake	Lewis & Clark	Liberty	Lincoln	2 C C C C C	mooraoa.	Menginer	Missouria	Musselshell	Pork	Petroleum	Phillips	Pondera	Powder River	Powell	Prairie	- Havaili	Richland	Day of the Ca	Sanders	Sheridan	Ellver Cow	Stillwater	Sweet brass	Teton	Taole	redsure	Whearland	Wiboux	Yellowstone	TOTAL

LIVE BIRTHS BY BIRTH WEIGHT GROUP - Montana Residents Montana Counties, 1968

COUNTIES		Prem	ature	M	ature	Wat	ght
COONTIES			oz. & under	over 5	Weight not given		
	TOTAL		Percent		Percent		Percent
Beaverhead	142	4	2.8	138	97.2	- 14456.1	0.0
Eig Horn	214	11	5.1	201	93.9	2	0.9
Bloine	118	5	4.2	112	94.9	1	0.8
Broadwater	43	3	7.0	40	93.0		0.0
Carbon	84	4	4.8	77	91.7	3	3.6
Carter	25	1	4.0	24	96.0		0.0
Coscode	1618	124	7.7	1494	92.3	_	0.0
Chouteau	97	10	10.3	87	89.7	-	0.0
Custer	203	19	9.4	184	90.6	-	0.0
Doniels	27	2	7.4	25	92.6	_	0.0
Dowson	203	15 ,	7.4	183	92.6	-	0.0
Deer Lodge	206	16	7.8	190	92.2	_	0.0
Follon	82	5	6.1	77	93.9	-	0.0
Fergus	194	13	6.7	181	93.3	_	0.0
Flatheod	678	45	6.6	632	93.2	1	0.1
Gallotin	490	41	8.4	449	91.6	_	0.0
Garfield	31	3	9.7	28	90.3	_	0.0
Glocier	220	17	7.7	199	90.5	4	1.8
Golden Valley	17	1	5.9	16	94.1	_	0.0
Gronite	46	3	6.5	43	93.5		0,0
Hill	287	13	4.5	274	95.5		0.0
Jefferson	71	6	8.5	65	91.5		0.0
Judith Basin	38	4	10.5	34	89.5		0.0
Loke	212	9	4.2	202	95.3	1	0.5
Lewis & Clork	551	36	6.5	515	93.5		0.0
Liberty	37	1	2.7	35	94.6	1	2.7
Lincoln	323	19	5.9	303	93.8	1	0.3
McCane	41	1	2.4	40	97.6	-	0.0
Madison Meogher	34	4	6.2	60	93.8	-	0.0
Mineral	49	3 4	8.8	31	91.2		0.0
Missoulo	1063	78	7.3	45	91.8		0.0
Musselshell	59	5	8.5	984	92.6	11	0.1
Park	163	10	6.1		91.5		0.0
Petroleum	9	1	11.1	153	93.9		0.0
Phillips	97	6	6.2	91	93.8	-	0.0
Pondero	113	10	8.8	103	91.2		0.0
Powder River	44	2	4.5	42	95.5	_	0.0
Pawell	94	7	7.4	86	91.5	1	1.1
Proirie	20	2	10.0	18	90.0	_	0.0
Ravolli	196	13	6.6	183	93.4		0.0
Richland .	159	14	8.8	145	91.2	_	0.0
Raosevelt	224	22	9.8	202	90.2	_	0.0
Rosebud	134	9	6.7	123	91.8	2	1.5
Sonders	62	5	8.1	56	90.3	1	1.6
Sheridon	67	2	3.0	65	97.0	-	0.0
Silver Bow	760	73	9.6	637	90.4		0.0
Stillwater	60	4	6.7	55	91.7	1	1.7
Sweet Grass	. 43	2	4.7	41	95.3	_	0.0
Teton	70	8 .	11.4	58	82.9	4	5.7
Toole	89	6	6.7	83	93.3		0.0
Treosure	16	1	6.2	15	93.8	_	0.0
Volley	289	19	6.6	270	93.4	-	0.0
Wheotland .	45	6	13.3	38	84.4	1	2.2
Wiboux	21	2	9.5	19	90.5		0.0
Yellowstone	1391	126	9.1	1265	90.9	-	0.0
TOTAL	11733	875	7.5	10833	92.3	25	0.2

Item 22

Breverhood		Total	1	2	3	4	
Signature	Beaverhead	5	2	3			
Blaine	Big Horn	9			-	2	
Broadwater 2	Blaine	3	1	1	1		
Carbon 3	Broadwater	2	_	2		_	
Carrier	Carbon	3	_				
Casted	Carter	 		-		 	
Chourteau	Cascade	47	1.8				
Caster	Choutenu						22 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /
Desire							22. Complications of frequency
Davison							() idane
Deer Lodge				+			
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Flankead 20 5 13 1 1					1		
Gallarin Carfield 1	•						
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Granite Hill 10					+	+	
Hill 10 2 7 1 -			 		+	 	Training of My Hacker More
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Judith Basin 2		-		·			
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Lewis & Clark							
Liberty 1 - 1					+		
Lincoln 6 - 4 1 1 1							
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Madison 5 1 3 - 1 Magner 1 - - 1 Mineral 2 - - - 2 1 9 - 2 Missaulo 22 11 9 - 2 Musselshell 5 3 2 - - Park 7 2 5 - - Pertoleum - - - - Ponder 3 1 2 - - Pondero 3 1 2 - - Powder River 2 1 1 - - Powell 1 - - - - Rosell 3 1 2 - - Rosell 3 6 7		-					
Mineral		-					
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Missaulo 22 11 9 - 2 Musselshell 5 3 2 Perk 7 2 5 Petroleum Pillips 6 1 4 - 1 Pondera 3 1 2 Powell 1 - 1 Prairie 3 1 2 Rovalli 8 6 2 Rovalli 13 6 7 Rosebud 8 - 6 - 2 Sanders 1 - 1 Silver üow 12 2 10 Silver üow 12 2 10 Silver üox 1 1 2 Roselud 8 Silver üox 1 1 3 Silver üox 1 1 1 Silver üox 1 2 1 Silver üox 1 3 1 2 Silver üox 1 1 1 Silver üox 1 2 1 1 Silver üox 1 3 1 2 Silver üox 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		-	 	+	-	1_1_	
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Rosebud							
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Sheridan				_6_		2	
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Stillwater						-	
Sweet Grass						-	
Tetan 3 2 1 - -					-	_	
Toole 2 - 2					-	_	
Treasure	Teton					-	
Valley 13 3 7 2 1 Wheatland - - - - Wibaux - - - - Yellowstane 36 8 26 1 1	Toole					_	
Wheatland - - - Wibaux - - - Yellowstane 36 8 26 1	Treasure					_	
Wibaux - <td>Valley</td> <td>13</td> <td>3</td> <td>7</td> <td>2</td> <td>1</td> <td></td>	Valley	13	3	7	2	1	
Yellowstone 36 8 26 1 1	Wheatland .	-		_	-	_	
	Wibaux			-	_	_	
TOTAL 369 105 233 12 19	Yellowstone	36	8	26	1	1	
101AL 307 105 233 12 19	TOTAL	360	105	222			
	TOTAL	309	102	433	1,4	19	

LIVE BIRTHS - MONTANA RESIDENTS - 1968 Complications of Labor

	Total	0	1	
Beaverhead	142	136	6	
Eig Horn	214	199	15	
Blaine	118	108	10	
Broodwoter	43	39	4	26. Complications of Labor
Carbon	84	78	6	
Corter	25	24	1	0. None
Cascode	1618	1509	109	1. (Cephalo-pelvic disproportions, C.P.D.,
Chouteau	97	89	8	contracted outlet, dystocia, uterine
Custer	203	169	34	inertia, cervical inertia, prematurity
Daniels	27	24	3	premature birth, premature labor,
Dowson	203	190	13	precipitous labor, R.O.P., L.O.P., Fac
Deer Lodge	206	184	22	presentation, O.P., occiput posterior,
Follon	82	74	8	posterior position, persistent poste-
Fergus	194	182	12	rior presentation, brow presentation,
Flothead	678	627	51	rupt. membrane, separation membrane,
Gollatin	490	433	57	trans, arrest, frank breech, amniotic
Garfield	31	26	5	fluid embolism, diastises of recti
Glocier	220	217	3	muscles, prolapsed cord, cord entangle-
Galden Valley	17	17	_	ment, prolonged labor)
Granite	46	41	5	
HIII	287	263	24	
Jefferson	. 71	64	7	
Judith Basin	38	36	2	
Loke	212	199	13	
Lewis & Clark	551	490	61	
Liberty	37	34	3	
Lincoln	323	304	19	
N' c C an e	41	38	3	
Madison	64	56	8	
Meogher	34	32	2	
Mineral	49	45	4	
Missoulo	1063	1000	63	
Musselshell	59	56	3	
Pork	163	141	22	
Petroleum	9	9	-	
Phillips	97	88	9	
Pondero	113	95	18	
Powder River	44	38	6	
Powell -	94	88	6	
Proirie	20	19	1	
Ravalli	196	187	9	
Richland	159	139	20	
Roosevelt	224	195	29	
Rosebud	134	114	20	
Sanders	62	53	9	
Sheridan	67	63	4	
Eilver Bow	760	734	26	
Stillwater	60	55	5	
Sweet Gross	43	40	3	
Tetan	' 70	60	10	
Taole	89	81	8	
Treosure	16	15	1	
Valley	289	240	49	
Vheatland	45	37	8	
∀iboux	21	19	2	
Yellowstone	1391	1254	137	
TOTAL	11733	10747	986	

LJ"E BIRTHS - MONTANA RESIDENTS - 1968 Birth Injury

	Total	1	2	3	14	5							
Beaverhead	10001	T -			-	T -				T	1		T
Eig Horn	2	2	_	-		-		1			-	 	+
Blaine			-		_	-							+
Braadwater	-	-	-				1		1	-			+
Carbon	_		-		-		-	-	-				+
Carter	_				-		 				 	 	+
Cascade	1,	-	-	-	-	-		 	 	-		<u> </u>	-
Chauteau			-		2	5	-						<u> </u>
Custer													
Daniels].		-	1.		 						-	
Dawson	J				-	-		22					
Deer Ladge	1					-		23.	Birth 1	njury	 		
Fallan				-		1	 			-	-		-
Fergus	1		 -	-		-		0		1			+
Flathead	14		-			-		1					-
Gallatin		1	-		2	1		2					+
	11		-			1		3			delive		
Garfield				-				4			and dis	locatio	កន
Glacier				-				5	· Othic	ic		-	
Golden Valley			-			-							1
Granite		-	-								ļ		1
Hill	4	<u> </u>	-		2	1							
Jefferson		-	-										ļ
Judith Bosin	-		-			-							
Lake	1		-			1,							
Lewis & Clark	3	22				1							1
Liberty	_		-	_									
Lincoln	1_	-		-	~	1							
A'cCane						_							1
Madison	-		-		_								
Meagher			-	-	_	-							
Mineral	_	_	_	_		_							
Missaula	_	_	-	-	_	_							
Musselshell			_		_	_					!		
Park	_	_				_							
Petroleum	-	-	-	-	-	_							
Phillips	1	_	-	-	_	1							
Pondera	1	-	-	_	-	1							
Powder River		_	_	_	_	_							
Pawell		-	-	-	-	_					l		
Prairie	- 1	_	-	-	-	-							
Ravalli	-	_	_	_	_	_	-						
Richland ·	-	-	-	-	-	_							
Raosevelt	1	1	_	-	-	-						· · · · · · · · · · · · · · · · · · ·	
Rosebud	î	1	- 1	_		-							+
Sanders	i	1		-									
Sheridan													-
Silver Baw		-	-	-	-	-							+
Stillwater	-	-	-	-	-								-
			-	-	-								-
Sweet Grass						69							+
Teton	~ /	-	-	-		-							
Toole	-	-	-		-	-							
reasure	-	-	-	-	-	-							
/alley	-	-	-		*	-							ļ
Wheatland	-	-	-		-	-							-
Vibaux	-	-	-	-	test .	-							
Yellowstone	2,	2	-	-	-	2							<u> </u>
	32	12	-	1	6	13							
TOTAL	ے ز	14	_	1	U	7.)							

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